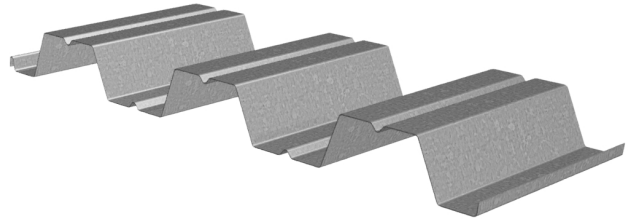
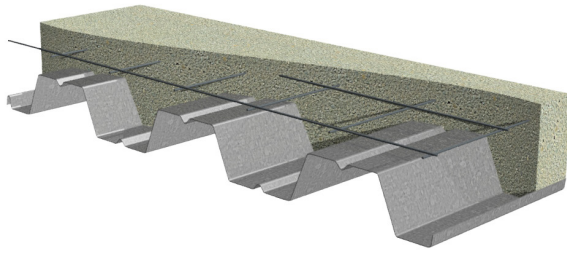
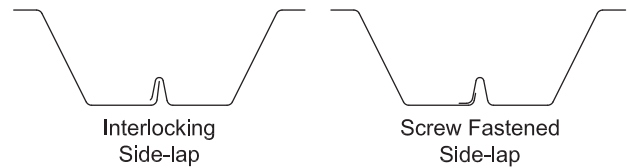
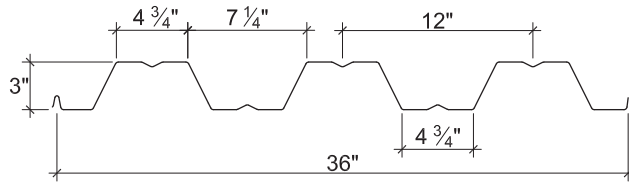


3C-36 NON-COMPOSITE DECK GRADE 50 STEEL

ASD



Nominal Dimensions



Section Properties

Deck Gage	Deck Weight w_{dd} (psf)	Base Metal Thickness t (in.)	Yield Strength F_y (ksi)	Effective Moment of Inertia at Service Load $I_d = (2I_e + I_g)/3$		Effective Section Modulus at $F_y = 50$ ksi		Allowable Moment		Vertical Web Shear V_n/Ω (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	M_{n+}/Ω (lb-ft/ft)	M_{n-}/Ω (lb-ft/ft)	
22	1.7	0.0295	50	0.732	0.737	0.387	0.410	966	1023	1407
20	2.1	0.0358	50	0.919	0.921	0.512	0.539	1277	1345	2485
18	2.7	0.0474	50	1.253	1.253	0.761	0.794	1899	1981	4361
16	3.5	0.0598	50	1.580	1.580	1.013	1.013	2528	2528	6126

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (lb/ft)

Deck Gage	Bearing Length of Webs											
	One-Flange Loading						Two-Flange Loading					
	End Bearing				Interior Bearing		End Bearing				Interior Bearing	
	1 1/2"	2"	3"	4"	4"	8"	1 1/2"	2"	3"	4"	4"	8"
22	353	388	446	496	783	910	333	359	402	439	910	1068
20	510	559	640	709	1121	1388	518	556	620	674	1328	1668
18	866	944	1075	1186	1881	2356	963	1028	1138	1231	2279	2900
16	1339	1455	1648	1811	2884	3579	1589	1690	1860	2003	3546	4474

Standard Features

- ASTM A653 SS GR50 Min. with G60
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-652 and UL Listed
- Tables conform to ANSI/SDI NC-2017

Optional Features

- Inquire regarding cost and lead times for:
 - Short cuts < 6'-0"
 - Sheet Lengths > 42'-0"
 - Alternative metallic and painted finishes
- Factory Hanger Tabs

3C-36 NON-COMPOSITE DECK GRADE 50 STEEL

ASD

Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			6'-0"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	11'-0"	12'-0"	13'-0"
22	Single	W_n / Ω	215	158	137	121	107	95	86	77	64	54	46
		L/240	---	140	114	94	78	66	56	48	36	28	22
	Double	W_n / Ω	194	148	131	116	104	94	85	77	64	54	47
		L/240	---	---	---	---	---	---	---	---	---	---	---
	Triple	W_n / Ω	230	177	157	140	126	114	103	94	79	67	57
		L/240	---	---	---	---	---	---	---	91	69	53	42
20	Single	W_n / Ω	284	209	182	160	141	126	113	102	84	71	60
		L/240	279	176	143	118	98	83	70	60	45	35	27
	Double	W_n / Ω	272	205	180	159	142	127	115	104	86	73	62
		L/240	---	---	---	---	---	---	---	---	---	---	---
	Triple	W_n / Ω	329	249	219	195	174	156	141	128	107	90	77
		L/240	---	---	---	---	---	---	133	114	86	66	52
18	Single	W_n / Ω	422	310	270	237	210	188	168	152	126	105	90
		L/240	380	239	195	160	134	113	96	82	62	48	37
	Double	W_n / Ω	412	308	270	238	212	190	171	155	128	108	92
		L/240	---	---	---	---	---	---	---	---	---	---	90
	Triple	W_n / Ω	501	377	331	293	261	234	211	191	159	134	115
		L/240	---	---	---	---	253	213	181	155	117	90	71
16	Single	W_n / Ω	562	413	359	316	280	250	224	202	167	140	120
		L/240	480	302	246	202	169	142	121	104	78	60	47
	Double	W_n / Ω	531	396	347	306	272	243	219	198	164	138	118
		L/240	---	---	---	---	---	---	---	---	---	---	114
	Triple	W_n / Ω	649	486	427	377	336	301	271	245	204	172	147
		L/240	---	---	---	---	318	268	228	196	147	113	89

Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "---" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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